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10/050,597 01/15/2002 Shunpei Yamazaki 07977-290001/US5432 4657 26171 7590 03/24/2004 EXAMINER FISH & RICHARDSON P.C. 1425 K STREET, N.W. ART UNIT PAPER NUMBER	APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
FISH & RICHARDSON P.C. 1425 K STREET, N.W.	10/050,597	01/15/2002		Shunpei Yamazaki	07977-290001/US5432	4657
1425 K STREET, N.W.	26171	7590	03/24/2004		EXAMINER	
1425 K STREET, N.W.	FISH & RI	CHARDS	SON P.C.	DOLAN, JENNIFER M		
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	WASHINGTON, DC 20005-3500				2813	

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	1 A 11 41 N	1 4 11			
Application No. Applicant(s)					
Office Anthony Commence	10/050,597	YAMAZAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jennifer M. Dolan	2813			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed ys will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 25 F	ebruary 2004.				
· ·	s action is non-final.				
3) Since this application is in condition for allowated closed in accordance with the practice under the condition of the con					
Disposition of Claims					
4) ☐ Claim(s) 1-22,24-30,32-38 and 40-68 is/are per 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 9-22,24-30,32-38 and 40-68 is/are all 6) ☐ Claim(s) 1,2,4-6 and 8 is/are rejected. 7) ☐ Claim(s) 3 and 7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acc					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv uu (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/25/04 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,490,014 to Ohtani et al.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the

Application/Control Number: 10/050,597

Art Unit: 2813

inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding the claims, Ohtani discloses a light emitting device comprising: a TFT over a substrate (figures 3E, 11D), an interlayer insulating film (17) over the TFT; a pixel electrode (25) over the interlayer insulating film; and a capacitor storage (from 23 and 19) over the interlayer insulating film (column 5, lines 45-52), wherein the capacitor has a connection wiring line (19), a capacitance wiring line (23) and an insulating film (20) between the two, wherein the connection wiring line is connected to a source/drain of the TFT (figures 3E, 11D), and wherein the connection wiring line overlaps an active region of the TFT (figure 11D).

4. Claims 1, 4, 5, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,495,886 to Yamazaki et al.

The applied reference has a common assignee and one common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1 and 5, Yamazaki discloses a light emitting device comprising: a TFT (figures 7 and 9); an interlayer insulating film over the TFT (figures 7 and 9); a pixel electrode (705, 903) over the interlayer insulating film; a capacitor storage comprising a connection wiring line (703,902), a capacitance wiring line (702,901), and an insulating film between the two

Art Unit: 2813

(figures 7 and 9), all formed over the interlayer insulating film; wherein the connection wiring line is connected to a source/drain of the TFT (figures 7 and 9), and wherein the connection wiring line overlaps an active layer of the TFT (figure 9).

Regarding claims 4 and 8, Yamazaki discloses that the appliance includes cell phones, digital cameras, etc. (figures 12A-12F).

5. Claims 1 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,323,918 to Yoshioka et al.

Yoshioka discloses a light emitting device comprising: a TFT over a substrate (figure 11); an interlayer insulating film (15) over the TFT; a pixel electrode (20) over the interlayer insulating film; and a capacitor comprising a connection wiring line (16a), a capacitance wiring line (18) and an insulating film (17) between the two, wherein the connection wiring line is connected to a source/drain of the TFT (figure 11; column 7, lines 50-56); and wherein the connection wiring line overlaps an active layer of the TFT (figures 10 and 11).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshioka et al. in view of U.S. Patent No. 6,121,652 to Suzawa.

Application/Control Number: 10/050,597

Art Unit: 2813

Yoshioka fails to disclose that the insulating films are formed by anodization.

Suzawa discloses that the insulating films (layer above 417) between the storage capacitor lines can be formed by anodization (column 2, lines 52-58; column 8, lines 31-34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the insulating film of Yoshioka, so that it is an anodic insulator, as taught by Suzawa. The rationale is as follows: A person having ordinary skill in the art would have been motivated to use an anodic oxide, because doing so simplifies the fabrication procedure by eliminating the need for depositing a separate dielectric layer.

8. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshioka in view of U.S. Patent No. 5,747,830 to Okita.

Yoshioka discloses that the device is part of a LCD display, but fails to specify an appliance in which the display is used.

Okita discloses an LCD display similar to that of Yoshioka, and further specifies that the display can be used in notebook and mobile computers (column 5, lines 20-26).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to specify that the LCD display of Yoshioka is used in a mobile computer, as suggested by Okita. The rationale is as follows: A person having ordinary skill in the art would have been motivated to use the display in a mobile computer, because Okita shows that an LCD display panel is commonly used and is suitable for use in a mobile computer (see Okita, column 5, lines 18-26). Since the LCD display of Yoshioka and the LCD display of Okita are substantially similar, and since LCD displays are commonly used in portable computers, it is

Art Unit: 2813

well within the purview of a person skilled in the art to use the LCD display of Yoshioka in a portable computer.

Allowable Subject Matter

- 9. Claims 9- 22, 24-30, 32-38, and 40-68 are allowed.
- 10. Claims 3 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

11. Applicant's arguments with respect to claims 1 and 5 have been considered but are moot in view of the new grounds of rejection.

Conclusion

- 12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Patent No. 5,815,226 to Yamazaki et al. discloses a display structure comprising two storage capacitors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Dolan whose telephone number is (571) 272-1690. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

Application/Control Number: 10/050,597

Art Unit: 2813

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer M. Dolan Examiner Art Unit 2813

jmd

CARL WHITEHEAD, JR.
SUPERMSORY PATENTIEXAMINED.